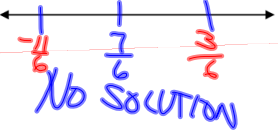


$$|7 - 6x| < -4$$

$$|7 - x| < -\frac{1}{6}$$

$$\frac{7}{6} - x = 0$$

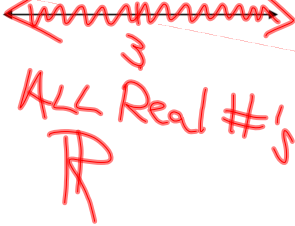
$$x = \frac{7}{6}$$


No Solution

$$|3 - x| \geq -5$$

$$3 - x = 0$$

$$x = 3$$

$$(-\infty, \infty)$$


ALL Real #'s  
 $\mathbb{R}$

$$f(x) = \begin{cases} 6 & \text{if } x < -4 \\ \frac{1}{4}x - 1 & \text{if } x \geq -4 \end{cases}$$

$$g(x) = \begin{cases} -2x - 4 & \text{if } x < 1 \\ 4x - 3 & \text{if } x \geq 1 \end{cases}$$

$$f(x) = \begin{cases} x + 8 & \text{if } -6 \leq x < -4 \\ 1 & \text{if } -4 \leq x < 3 \\ -\frac{2}{3}x - 1 & \text{if } x \geq 3 \end{cases}$$

$$g(x) = \begin{cases} -2x - 5 & \text{if } x < -3 \\ x & \text{if } -3 \leq x \leq 2 \\ -4 & \text{if } x > 2 \end{cases}$$

$$f(x) = \begin{cases} 2x - 1 & \text{if } -5 \leq x < 3 \\ 4 & \text{if } 3 \leq x < 5 \\ -x + 5 & \text{if } x \geq 5 \end{cases}$$

$$g(3)$$

HW

Piecewise Functions Review

Do not do #'s 10 or 11